

Data release date: June 2023
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Table CE4.1 Annual household site end-use consumption by fuel in the United States—totals, 2020

	Number of housing units (million)	Total site energy consumption ^a (trillion Btu)																		
		Electricity							Natural gas				Propane				Fuel oil or kerosene			
	Total U.S. ^b	Total	Total	Space heating ^c	Water heating	Air condi- tioning	Refrig- erators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d
All homes	123.53	9,481	4,453	550	533	866	352	2,153	4,241	2,887	1,081	273	391	274	69	48	396	315	53	27
Census region and division																				
Northeast	21.92	1,956	599	67	60	93	55	324	942	649	228	65	82	53	15	14	333	261	48	23
New England	5.88	528	147	14	14	19	14	85	182	126	48	8	29	17	6	6	170	136	24	10
Middle Atlantic	16.04	1,428	453	53	46	74	41	239	760	523	180	57	52	36	9	7	163	125	25	13
Midwest	27.04	2,619	902	125	91	131	77	478	1,521	1,195	275	51	170	141	19	10	26	23	Q	Q
East North Central	18.55	1,823	591	77	58	84	52	321	1,103	870	193	40	108	89	12	7	21	19	Q	Q
West North Central	8.50	796	310	48	33	47	25	157	419	325	83	11	62	52	7	4	4	4	Q	N
South	46.84	3,116	2,138	279	301	497	141	920	865	554	237	74	86	50	20	16	28	24	2	2
South Atlantic	24.84	1,584	1,109	139	172	248	75	476	405	272	102	32	44	27	9	8	25	23	2	Q
East South Central	7.38	523	350	62	53	66	22	147	152	108	35	10	19	12	3	3	2	2	N	Q
West South Central	14.62	1,009	679	78	76	183	44	297	307	174	101	33	23	11	8	4	Q	N	Q	N
West	27.72	1,790	814	79	80	145	79	431	913	489	341	83	54	30	15	8	9	8	2	Q
Mountain	9.22	727	330	26	28	80	28	169	370	240	105	25	26	17	6	2	Q	Q	Q	Q
Mountain North	4.62	413	141	15	12	18	13	82	256	180	65	10	16	13	3	Q	Q	Q	Q	Q
Mountain South	4.60	314	189	11	16	62	14	87	115	60	40	15	10	5	4	1	Q	Q	Q	N
Pacific	18.51	1,063	484	52	52	65	52	262	542	250	235	57	28	13	9	6	8	7	1	Q
Census urban/rural classification^e																				
Urban	100.44	7,510	3,370	355	367	703	277	1,668	3,827	2,587	1,001	239	78	43	20	16	234	182	37	16
Urbanized area	89.24	6,649	2,967	287	315	635	247	1,481	3,417	2,283	910	224	61	32	15	13	205	156	34	15
Urban cluster	11.20	861	404	67	52	68	30	187	410	304	91	15	18	11	5	3	29	26	3	Q
Rural	23.09	1,971	1,083	195	166	163	75	485	414	300	80	33	313	231	49	32	161	134	16	11
Climate region^f																				
Very cold and Cold	42.50	4,044	1,311	175	135	168	116	718	2,203	1,672	441	89	241	188	33	20	289	236	35	18
Mixed-humid	36.79	2,830	1,451	220	197	270	104	660	1,179	818	283	78	97	65	19	14	104	78	17	9
Mixed-dry and Hot-dry	15.06	887	445	21	29	119	45	232	421	175	187	59	21	9	7	5	Q	Q	Q	N
Hot-humid	22.31	1,306	1,049	99	140	299	69	442	232	111	89	33	24	9	9	7	Q	N	Q	N
Marine	6.87	413	197	35	32	11	18	100	206	110	82	14	8	3	3	2	Q	Q	Q	N
Housing unit type																				
Single-family detached	77.07	7,293	3,261	377	327	660	256	1,642	3,351	2,374	768	209	344	245	58	41	337	279	39	19
Single-family attached	7.45	500	215	27	24	40	19	104	270	182	76	13	6	3	2	1	10	9	1	Q
Apartments in buildings with 2–4 units	9.34	500	212	30	34	37	18	93	268	157	86	24	3	1	2	*	16	9	5	Q
Apartments in buildings with 5 or more units	22.84	769	475	61	89	78	42	205	270	117	131	22	6	2	3	1	19	8	8	4

	Number of housing units (million)	Total site energy consumption ^a (trillion Btu)																		
		Electricity							Natural gas				Propane				Fuel oil or kerosene			
		Total U.S. ^b	Total	Total	Space heating ^c	Water heating	Air conditioning	Refrigerators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating
All homes	123.53	9,481	4,453	550	533	866	352	2,153	4,241	2,887	1,081	273	391	274	69	48	396	315	53	27
Mobile homes	6.83	419	290	55	59	50	17	110	83	57	21	5	34	23	5	5	12	11	Q	Q
Ownership of housing unit																				
Owned	82.92	7,501	3,381	401	350	675	270	1,684	3,428	2,421	791	215	354	251	60	44	338	275	41	21
Single-family	73.22	6,950	3,059	347	293	617	246	1,556	3,247	2,307	738	201	325	231	55	40	319	263	38	18
Apartments	4.32	218	94	11	12	19	10	42	115	69	36	10	Q	Q	Q	Q	10	4	3	Q
Mobile homes	5.38	333	228	43	45	39	14	87	67	45	17	5	29	20	5	4	9	8	Q	Q
Rented ^e	40.61	1,980	1,073	148	183	191	82	469	813	466	290	57	37	23	9	4	58	40	12	6
Single-family	11.30	843	417	57	58	84	29	189	374	248	105	21	25	18	5	2	28	24	2	Q
Apartments	27.86	1,051	594	80	111	97	50	256	423	205	181	36	8	2	4	2	26	13	10	4
Mobile homes	1.45	86	62	11	14	11	3	23	16	12	3	1	5	4	Q	*	3	3	Q	Q
Year of construction																				
Before 1950	20.26	1,836	611	78	61	113	52	307	1,023	758	210	55	75	61	9	6	127	105	14	8
1950 to 1959	12.48	1,058	397	42	40	85	34	197	552	398	127	27	28	22	3	3	81	69	8	4
1960 to 1969	12.76	980	415	46	43	84	35	206	487	339	122	27	31	22	5	4	46	35	8	3
1970 to 1979	18.34	1,306	673	107	85	130	50	302	522	350	143	28	61	49	8	4	50	41	7	2
1980 to 1989	16.30	1,086	609	89	81	120	45	274	394	254	112	27	43	29	8	7	39	29	5	5
1990 to 1999	17.16	1,336	696	77	88	133	55	344	543	353	150	40	72	47	15	10	25	18	4	3
2000 to 2009	16.16	1,236	669	69	80	133	52	335	487	296	150	41	54	31	14	9	26	18	5	2
2010 to 2015	5.53	360	218	24	32	39	17	107	126	75	38	13	15	8	4	2	1	1	Q	Q
2016 to 2020	4.56	284	164	17	25	29	12	81	107	64	29	14	12	6	3	2	Q	Q	Q	N
Total square footage ^h																				
Less than 1,000	30.01	1,265	697	94	120	115	58	309	505	267	198	40	26	16	7	4	37	21	9	6
1,000 to 1,499	28.08	1,733	901	120	136	171	70	404	737	482	213	42	54	39	9	6	41	31	7	3
1,500 to 1,999	22.22	1,778	835	103	96	170	67	399	800	558	203	38	63	42	13	9	80	63	10	7
2,000 to 2,499	15.62	1,430	649	77	68	132	50	322	638	461	143	33	71	53	11	6	72	58	9	5

Table CE4.1 Annual household site end-use consumption by fuel in the United States—totals, 2020

	Number of housing units (million)	Total site energy consumption ^a (trillion Btu)																		
		Electricity							Natural gas				Propane				Fuel oil or kerosene			
		Total U.S. ^b	Total	Space heating ^c	Water heating	Air condi- tioning	Refrig- erators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d
All homes	123.53	9,481	4,453	550	533	866	352	2,153	4,241	2,887	1,081	273	391	274	69	48	396	315	53	27
Less than \$5,000	4.48	253	137	22	24	22	9	59	101	63	32	6	9	6	2	1	6	5	Q	Q
\$5,000 to \$9,999	4.01	208	110	16	20	19	8	47	82	53	25	4	7	5	1	1	9	7	Q	Q
\$10,000 to \$19,999	10.25	588	294	49	41	53	23	127	244	162	70	12	29	23	4	2	21	17	3	Q
\$20,000 to \$39,999	24.07	1,568	776	110	112	147	60	348	661	454	174	33	68	52	10	6	63	52	7	4
\$40,000 to \$59,999	19.61	1,372	667	85	90	131	53	308	603	423	149	31	55	40	10	5	48	39	7	3
\$60,000 to \$99,999	27.71	2,178	1,017	123	120	196	82	495	964	665	245	53	94	66	18	10	104	84	12	8
\$100,000 to \$149,999	16.54	1,462	667	75	65	134	54	339	675	461	171	43	61	43	12	6	59	43	10	6
\$150,000 or more	16.86	1,852	786	70	60	164	62	430	911	605	215	91	69	40	13	16	86	69	13	4
Payment method for energy bills																				
All paid by household	112.70	8,982	4,239	521	504	830	331	2,054	3,996	2,751	991	253	380	269	66	46	366	301	43	23
Some paid by household, some included in rent or condo fee	6.32	302	117	14	13	21	12	57	152	81	58	13	8	4	3	1	25	12	9	4
All included in rent or condo fee	4.34	183	94	14	16	15	8	40	83	47	30	6	2	1	1	1	4	3	1	Q
Some other method	0.16	14	4	*	Q	*	*	2	9	Q	2	*	Q	N	Q	Q	Q	Q	Q	Q
Main heating fuel																				
Natural gas	62.71	5,996	1,933	57	96	429	188	1,164	4,052	2,870	954	228	4	1	1	2	7	Q	4	Q
Electricity	42.57	2,081	1,899	472	328	327	113	660	133	14	85	34	43	11	17	15	5	1	2	2
Fuel oil or kerosene	4.93	547	152	7	22	21	13	89	11	Q	6	3	11	2	3	7	373	309	45	20
Propane	5.21	512	198	8	36	28	17	110	1	Q	Q	1	312	257	40	16	Q	Q	N	N
Wood	2.25	115	83	6	20	8	7	43	5	1	3	1	18	4	7	7	9	5	2	2
Some other fuel ⁱ	Q	Q	Q	Q	Q	Q	Q	Q	Q	N	N	Q	Q	N	N	Q	Q	Q	N	Q
Does not use heating equipment	5.79	229	186	N	31	54	15	87	39	N	32	7	3	N	2	Q	Q	N	Q	Q

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		Electricity							Natural gas				Propane				Fuel oil or kerosene			
		Total U.S. ^b	Total	Space heating ^c	Water heating	Air condi- tioning	Refrig- erators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d
All homes	123.53	9,481	4,453	550	533	866	352	2,153	4,241	2,887	1,081	273	391	274	69	48	396	315	53	27

Data source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Forms EIA-457A, D, E, F, G of the *2020 Residential Energy Consumption Survey*

Notes: Because of rounding, data may not sum to totals. See RECS Terminology for definition of terms used in these tables.

Btu = British thermal units

^a Consumption and expenditures for biomass (wood), coal, district steam, and solar thermal are excluded. Electricity consumption from on-site solar photovoltaic generation (that is, solar panels) is included.

^b *Total U.S.* includes all primary occupied housing units in the 50 states and the District of Columbia. Vacant housing units, seasonal units, second homes, military houses, and group quarters are excluded.

^c Includes main (primary) and secondary space heating.

^d Includes end uses not shown in this table. A more detailed breakout of end uses is shown in the *CE5* tables.

^e Housing units are classified using criteria created by the U.S. Census Bureau based on 2010 Census data. Urbanized areas are densely settled groupings of blocks or tracts with 50,000 or more people. Urban clusters have at least 2,500 but less than 50,000 people. All other areas are rural.

^f The Building America program, sponsored by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE), created these climate regions. We combined climate regions for this publication. The Subarctic region is included with data for *Very-cold and Cold*.

^g *Rented* includes households that occupy their primary housing units without paying rent.

^h *Total square footage* includes all basements, finished or conditioned (heated or cooled) areas of attics, and conditioned garage space that is attached to the home. Unconditioned and unfinished areas in attics and attached garages are excluded. The square footage of the home is based on respondent reports. Previous RECS cycles calculated square footage based on interviewer measurements. For households that did not report an exact square footage estimate, the square footage of the home was imputed based on a reported square footage range and/or characteristics of the home. See *2020 RECS Square Footage Methodology* for full details about data collection and processing.

ⁱ *Some other fuel* includes coal and district steam.

Q = Data withheld because either the relative standard error (RSE) was greater than 50% or fewer than 10 households in reporting sample.

N = No households in reporting sample.

* = Estimate is less than 0.5 and rounds to zero.

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	Number of housing units (million)	Total site energy consumption ^a																		
		Electricity (billion kWh)						Natural gas (billion cubic feet)				Propane (million gallons)				Fuel oil or kerosene (million gallons)				
		Total U.S. ^b	Total	Space heating ^c	Water heating	Air condi- tioning	Refrig- erators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d
All homes	123.53	1,305	161	156	254	103	631	4,217	2,871	1,076	271	4,280	2,996	759	525	2,880	2,295	389	197	
Census region and division																				
Northeast	21.92	176	20	18	27	16	95	922	635	222	64	894	580	165	150	2,421	1,898	353	170	
New England	5.88	43	4	4	6	4	25	178	123	46	8	322	186	66	70	1,238	990	174	74	
Middle Atlantic	16.04	133	16	13	22	12	70	744	512	176	56	572	394	99	80	1,183	908	179	96	
Midwest	27.04	264	37	27	38	22	140	1,492	1,172	270	50	1,864	1,543	206	114	187	166	Q	Q	
East North Central	18.55	173	23	17	24	15	94	1,078	850	188	39	1,181	975	132	74	156	135	Q	Q	
West North Central	8.50	91	14	10	14	7	46	415	322	82	11	683	568	74	41	31	31	Q	N	
South	46.84	627	82	88	146	41	270	857	549	236	73	936	545	221	171	205	176	15	14	
South Atlantic	24.84	325	41	50	73	22	140	397	267	100	31	484	292	101	91	185	164	11	Q	
East South Central	7.38	102	18	16	19	6	43	150	107	34	9	206	136	35	35	17	12	N	Q	
West South Central	14.62	199	23	22	54	13	87	310	176	101	33	247	118	84	45	Q	N	Q	N	
West	27.72	239	23	24	42	23	126	946	514	348	84	586	328	167	91	68	55	12	Q	
Mountain	9.22	97	8	8	23	8	49	414	270	117	28	280	189	69	22	Q	Q	Q	Q	
Mountain North	4.62	41	4	4	5	4	24	288	203	73	11	175	139	28	Q	Q	Q	Q	Q	
Mountain South	4.60	56	3	5	18	4	26	127	67	44	16	106	50	41	14	Q	Q	Q	N	
Pacific	18.51	142	15	15	19	15	77	532	244	231	57	305	139	98	69	60	52	8	Q	
Census urban/rural classification ^e																				
Urban	100.44	988	104	108	206	81	489	3,803	2,570	995	237	858	466	218	174	1,706	1,321	270	115	
Urbanized area	89.24	869	84	92	186	73	434	3,390	2,264	904	222	662	348	168	146	1,493	1,133	249	111	
Urban cluster	11.20	118	20	15	20	9	55	413	306	92	15	196	118	50	28	213	188	21	Q	
Rural	23.09	317	57	49	48	22	142	415	301	81	33	3,422	2,530	541	351	1,174	973	119	82	
Climate region ^f																				
Very cold and Cold	42.50	384	51	39	49	34	210	2,202	1,670	443	89	2,633	2,053	357	222	2,107	1,718	256	133	
Mixed-humid	36.79	425	64	58	79	31	193	1,159	805	278	76	1,066	710	204	152	754	565	126	63	
Mixed-dry and Hot-dry	15.06	130	6	8	35	13	68	428	180	189	59	229	104	74	52	Q	Q	Q	N	
Hot-humid	22.31	307	29	41	88	20	130	230	110	88	32	265	94	95	76	Q	N	Q	N	
Marine	6.87	58	10	10	3	5	29	198	105	79	14	86	35	29	23	Q	Q	Q	N	
Housing unit type																				
Single-family detached	77.07	956	110	96	194	75	481	3,336	2,363	766	208	3,759	2,683	631	445	2,456	2,031	286	139	
Single-family attached	7.45	63	8	7	12	6	30	267	180	75	12	61	30	19	12	75	62	9	Q	
Apartments in buildings with 2–4 units	9.34	62	9	10	11	5	27	264	155	85	24	30	7	19	4	120	67	34	Q	

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		Electricity (billion kWh)						Natural gas (billion cubic feet)				Propane (million gallons)				Fuel oil or kerosene (million gallons)			
		Total U.S. ^b	Total	Space heating ^c	Water heating	Air condi- tioning	Refrig- erators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating
All homes	123.53	1,305	161	156	254	103	631	4,217	2,871	1,076	271	4,280	2,996	759	525	2,880	2,295	389	197
Apartments in buildings with 5 or more units	22.84	139	18	26	23	12	60	267	115	130	22	64	20	30	14	141	56	58	27
Mobile homes	6.83	85	16	17	15	5	32	84	58	21	5	367	257	60	50	88	79	Q	Q
Ownership of housing unit																			
Owned	82.92	991	118	103	198	79	494	3,411	2,409	789	214	3,874	2,740	656	478	2,460	2,004	300	156
Single-family	73.22	897	102	86	181	72	456	3,231	2,295	736	200	3,551	2,522	598	432	2,325	1,915	278	132
Apartments	4.32	27	3	4	6	3	12	113	68	35	10	Q	Q	Q	Q	71	30	22	Q
Mobile homes	5.38	67	13	13	11	4	25	68	46	18	5	317	215	56	45	65	59	Q	Q
Rented ^e	40.61	314	43	53	56	24	137	806	462	287	57	406	256	103	48	420	291	89	41
Single-family	11.30	122	17	17	25	8	55	372	247	105	20	269	192	52	25	207	178	17	Q
Apartments	27.86	174	23	32	28	15	75	418	203	179	36	87	22	47	17	190	93	70	28
Mobile homes	1.45	18	3	4	3	1	7	17	13	3	1	50	42	Q	5	23	20	Q	Q
Year of construction																			
Before 1950	20.26	179	23	18	33	15	90	1,006	746	206	54	820	663	94	62	924	762	105	57
1950 to 1959	12.48	116	12	12	25	10	58	546	394	126	27	309	238	38	33	591	499	61	31
1960 to 1969	12.76	122	14	13	25	10	61	482	335	121	26	336	238	54	44	336	255	55	25
1970 to 1979	18.34	197	31	25	38	15	89	521	350	143	28	666	534	87	45	366	302	53	12
1980 to 1989	16.30	179	26	24	35	13	80	394	255	112	27	474	316	86	73	283	210	40	34
1990 to 1999	17.16	204	22	26	39	16	101	544	353	151	40	788	512	165	111	182	131	33	19
2000 to 2009	16.16	196	20	23	39	15	98	489	298	150	41	593	337	153	103	187	130	40	17
2010 to 2015	5.53	64	7	9	11	5	31	127	76	38	13	160	88	45	27	9	4	Q	Q
2016 to 2020	4.56	48	5	7	9	4	24	107	65	29	14	134	70	37	27	Q	Q	Q	N
Total square footage ^h																			
Less than 1,000	30.01	204	27	35	34	17	91	501	265	197	39	290	173	72	44	266	154	68	44
1,000 to 1,499	28.08	264	35	40	50	20	118	732	478	211	42	595	424	102	69	297	223	51	23
1,500 to 1,999	22.22	245	30	28	50	20	117	796	556	202	38	693	456	140	97	584	457	74	53
2,000 to 2,499	15.62	190	23	20	39	15	94	634	458	143	33	773	582	122	69	527	426	68	33
2,500 to 2,999	10.31	134	15	12	28	11	69	514	368	114	31	546	406	90	50	344	299	33	11
3,000 or more	17.29	268	31	21	54	21	142	1,041	744	209	88	1,384	954	233	196	863	736	95	32
Number of household members																			
1 member	33.59	241	38	24	47	22	109	850	619	189	42	901	688	127	87	621	506	65	49
2 members	45.31	482	61	52	94	40	235	1,570	1,107	361	101	1,912	1,363	319	229	1,133	947	136	50
3 members	18.27	221	25	28	42	16	109	694	450	190	54	626	422	112	92	503	386	73	44
4 members	15.56	203	20	29	40	15	100	649	416	189	44	483	293	114	76	379	276	79	23

Table CE4.1 Annual household site end-use consumption by fuel in the United States—totals, 2020

	Number of housing units (million)	Total site energy consumption ^a																	
		Electricity (billion kWh)						Natural gas (billion cubic feet)				Propane (million gallons)				Fuel oil or kerosene (million gallons)			
		Total U.S. ^b	Total	Space heating ^c	Water heating	Air condi- tioning	Refrig- erators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating
All homes	123.53	1,305	161	156	254	103	631	4,217	2,871	1,076	271	4,280	2,996	759	525	2,880	2,295	389	197
5 members	6.44	92	9	13	18	6	46	258	160	83	15	193	122	48	23	139	107	19	13
6 or more members	4.37	64	7	9	12	4	32	197	118	64	15	165	109	38	19	105	72	16	Q
2020 annual household income																			
Less than \$5,000	4.48	40	6	7	7	3	17	100	62	32	6	96	61	22	13	46	36	Q	Q
\$5,000 to \$9,999	4.01	32	5	6	6	2	14	81	53	25	4	72	49	11	11	66	51	Q	Q
\$10,000 to \$19,999	10.25	86	14	12	16	7	37	242	161	69	12	321	249	46	26	152	124	20	Q
\$20,000 to \$39,999	24.07	228	32	33	43	18	102	659	452	174	32	744	570	109	64	457	379	51	28
\$40,000 to \$59,999	19.61	195	25	26	38	16	90	600	421	149	31	599	433	106	60	348	281	48	19
\$60,000 to \$99,999	27.71	298	36	35	58	24	145	959	662	244	53	1,026	723	198	105	755	609	88	58
\$100,000 to \$149,999	16.54	196	22	19	39	16	99	673	460	170	43	667	470	129	68	429	309	73	46
\$150,000 or more	16.86	230	20	18	48	18	126	903	600	213	91	756	440	138	178	627	506	95	27
Payment method for energy bills																			
All paid by household	112.70	1,243	153	148	243	97	602	3,975	2,737	987	251	4,159	2,937	717	506	2,666	2,187	313	165
Some paid by household, some included in rent or condo fee	6.32	34	4	4	6	3	17	151	81	57	13	91	49	33	9	180	84	66	30
All included in rent or condo fee	4.34	27	4	5	5	2	12	82	46	30	6	27	10	8	9	29	19	10	Q
Some other method	0.16	1	*	Q	*	*	1	9	Q	2	*	Q	N	Q	Q	Q	Q	Q	Q
Main heating fuel																			
Natural gas	62.71	567	17	28	126	55	341	4,030	2,854	950	226	48	8	14	26	50	Q	26	Q
Electricity	42.57	557	138	96	96	33	193	132	14	84	34	471	122	186	163	39	9	15	15
Fuel oil or kerosene	4.93	45	2	7	6	4	26	10	Q	6	3	121	18	31	72	2,717	2,246	329	142
Propane	5.21	58	2	11	8	5	32	1	Q	Q	1	3,416	2,805	433	179	Q	Q	N	N
Wood	2.25	24	2	6	2	2	13	5	1	3	1	194	43	78	73	65	33	14	17
Some other fuel ⁱ	Q	Q	Q	Q	Q	Q	Q	Q	N	N	Q	Q	N	N	Q	Q	Q	N	Q
Does not use heating equipment	5.79	55	N	9	16	4	25	38	N	31	7	30	N	17	Q	Q	N	Q	Q

Table CE4.1 Annual household site end-use consumption by fuel in the United States—totals, 2020

	Number of housing units (million)	Total site energy consumption ^a																		
		Electricity (billion kWh)						Natural gas (billion cubic feet)				Propane (million gallons)				Fuel oil or kerosene (million gallons)				
		Total U.S. ^b	Total	Space heating ^c	Water heating	Air condi- tioning	Refrig- erators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d
All homes	123.53	1,305	161	156	254	103	631	4,217	2,871	1,076	271	4,280	2,996	759	525	2,880	2,295	389	197	

Data source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Forms EIA-457A, D, E, F, G of the *2020 Residential Energy Consumption Survey*

Notes: Because of rounding, data may not sum to totals. See RECS Terminology for definition of terms used in these tables.

kWh = kilowatthours

^a Consumption and expenditures for biomass (wood), coal, district steam, and solar thermal are excluded. Electricity consumption from on-site solar photovoltaic generation (that is, solar panels) is included.

^b *Total U.S.* includes all primary occupied housing units in the 50 states and the District of Columbia. Vacant housing units, seasonal units, second homes, military houses, and group quarters are excluded.

^c Includes main (primary) and secondary space heating.

^d Includes end uses not shown in this table. A more detailed breakout of end uses is shown in the *CE5* tables.

^e Housing units are classified using criteria created by the U.S. Census Bureau based on 2010 Census data. Urbanized areas are densely settled groupings of blocks or tracts with 50,000 or more people. Urban clusters have at least 2,500 but less than 50,000 people. All other areas are rural.

^f The Building America program, sponsored by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE), created these climate regions. We combined climate regions for this publication. The Subarctic region is included with data for *Very-cold and Cold*.

^g *Rented* includes households that occupy their primary housing units without paying rent.

^h *Total square footage* includes all basements, finished or conditioned (heated or cooled) areas of attics, and conditioned garage space that is attached to the home. Unconditioned and unfinished areas in attics and attached garages are excluded. The square footage of the home is based on respondent reports. Previous RECS cycles calculated square footage based on interviewer measurements. For households that did not report an exact square footage estimate, the square footage of the home was imputed based on a reported square footage range and/or characteristics of the home. See *2020 RECS Square Footage Methodology* for full details about data collection and processing.

ⁱ *Some other fuel* includes coal and district steam.

Q = Data withheld because either the relative standard error (RSE) was greater than 50% or fewer than 10 households in reporting sample.

N = No households in reporting sample.

* = Estimate is less than 0.5 and rounds to zero.

Data release date: June 2023
Revised data release date: March 2024

Relative standard errors (RSEs) for Table CE4.1 Annual household site end-use consumption by fuel in the United States—totals, 2020

	RSEs for number of housing units	RSEs for total site energy consumption ^a																		
		Electricity							Natural gas				Propane				Fuel oil or kerosene			
		Total U.S. ^b	Total	Total	Space heating ^c	Water heating	Air conditioning	Refrigerators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating
All homes	0.00	0.40	0.38	1.43	1.17	0.66	0.34	0.51	0.91	1.01	0.89	3.44	3.80	4.48	4.78	6.88	3.43	3.41	5.16	11.81
Census region and division																				
Northeast	0.00	0.78	1.14	5.35	3.14	1.67	0.78	1.37	1.67	1.92	1.92	8.87	8.21	10.07	8.95	10.45	4.00	4.01	5.66	13.18
New England	0.00	1.34	1.39	6.29	5.10	2.65	1.33	1.70	3.82	4.15	4.29	9.95	9.62	11.80	10.57	15.37	3.82	4.02	5.83	15.08
Middle Atlantic	0.00	1.07	1.49	6.80	4.05	2.03	0.98	1.83	2.16	2.39	2.39	10.10	10.49	12.62	12.21	14.78	6.75	6.90	9.97	20.15
Midwest	0.00	0.90	1.02	4.60	3.24	1.50	0.83	1.14	1.66	1.73	1.99	5.73	6.25	6.87	9.01	14.37	19.73	20.71	43.95	50.33
East North Central	0.00	1.13	1.34	6.48	4.37	1.81	0.99	1.59	1.92	2.02	2.35	6.90	8.20	8.75	13.00	18.29	22.30	23.87	44.60	50.33
West North Central	0.00	1.29	1.33	5.45	5.11	2.17	1.33	1.60	2.62	2.69	3.07	11.51	7.68	8.47	9.94	19.53	31.76	31.90	15.91	0.00
South	0.00	0.65	0.67	1.80	1.54	1.05	0.66	0.87	1.86	2.24	2.26	7.95	5.36	7.54	8.82	9.18	14.24	14.81	28.14	35.53
South Atlantic	0.00	1.02	0.96	2.47	1.82	1.65	0.95	1.26	3.00	3.18	3.57	9.58	8.78	10.94	13.33	12.89	15.52	15.42	29.45	49.90
East South Central	0.00	1.54	1.39	3.33	2.95	1.93	1.78	2.06	4.61	4.77	5.34	18.31	11.48	13.42	18.34	23.61	32.85	35.24	0.00	51.12
West South Central	0.00	1.22	1.21	3.72	3.29	1.72	1.49	1.63	3.32	3.96	3.46	12.91	11.70	13.46	13.75	19.82	79.06	0.00	79.06	0.00
West	0.00	0.74	0.80	3.38	2.68	1.62	0.76	0.98	1.22	1.64	1.48	6.23	9.27	11.22	9.92	24.69	12.40	12.75	28.03	69.71
Mountain	0.00	1.03	1.42	5.57	4.31	2.28	1.14	1.64	1.76	2.24	1.84	10.71	13.49	15.92	13.76	26.89	41.67	50.07	66.30	16.66
Mountain North	0.00	1.40	1.76	6.65	6.42	3.27	1.76	1.86	2.14	2.48	2.45	17.16	19.73	20.67	21.92	55.69	42.33	51.38	72.52	16.66
Mountain South	0.00	1.70	1.94	6.83	5.70	2.49	1.46	2.54	3.56	4.58	3.42	13.83	18.86	25.36	18.06	29.74	20.25	20.25	20.25	0.00
Pacific	0.00	1.09	1.16	4.39	3.09	2.77	1.12	1.34	2.00	2.83	2.09	7.33	13.80	17.00	13.71	30.47	13.15	13.53	31.01	75.08
Census urban/rural classification ^e																				
Urban	0.28	0.60	0.55	2.04	1.54	0.83	0.53	0.71	1.00	1.11	1.02	3.44	8.42	11.04	8.87	11.26	4.09	4.00	6.27	16.68
Urbanized area	0.42	0.69	0.69	2.17	1.80	0.94	0.69	0.84	1.08	1.20	1.14	3.54	9.61	12.40	10.32	11.39	4.52	4.48	6.70	16.96
Urban cluster	2.74	3.19	2.92	5.45	3.94	3.64	3.11	3.10	4.58	4.94	4.53	11.37	15.48	18.47	19.50	26.37	14.34	14.49	16.83	49.73
Rural	1.23	1.49	1.41	2.91	2.25	2.00	1.68	1.69	3.82	3.81	4.17	16.72	4.08	4.74	5.19	8.55	5.45	6.04	6.61	13.02
Climate region ^f																				
Very cold and Cold	0.54	0.77	0.92	3.48	2.51	1.22	0.83	1.02	1.44	1.49	1.47	6.81	5.05	5.58	5.86	10.00	3.35	3.51	5.38	12.45
Mixed-humid	0.77	1.17	1.00	1.91	1.84	1.35	1.22	1.25	1.95	2.17	2.10	6.31	7.50	9.32	8.44	9.77	8.43	8.96	10.90	23.83
Mixed-dry and Hot-dry	1.23	1.57	1.41	7.33	5.36	1.75	1.60	1.65	2.20	3.42	2.02	7.83	14.86	18.53	15.68	36.10	20.25	20.25	20.25	0.00
Hot-humid	0.69	1.36	1.45	3.29	2.29	1.69	1.42	1.83	3.62	4.35	3.91	13.12	9.85	15.41	11.36	17.19	79.06	0.00	79.06	0.00
Marine	2.39	2.62	2.57	5.78	4.19	5.16	2.96	3.08	3.92	4.55	4.37	10.17	23.25	28.09	21.20	49.07	38.60	43.01	20.14	0.00
Housing unit type																				
Single-family detached	0.00	0.45	0.39	1.60	1.53	0.68	0.47	0.52	0.95	1.04	1.01	4.29	4.36	5.06	5.07	7.93	3.62	3.64	5.34	12.35
Single-family attached	0.00	1.67	1.54	5.00	5.01	2.70	1.45	1.58	2.57	2.91	3.28	6.14	21.88	28.40	24.16	39.20	19.75	21.00	23.50	56.06
Apartments in buildings with 2–4 units	0.00	2.20	2.13	6.65	4.97	4.08	1.81	2.37	3.85	5.10	3.80	16.39	19.80	35.11	25.69	45.41	19.31	20.11	23.58	54.11
Apartments in buildings with 5 or more units	0.00	1.22	1.60	4.16	2.95	2.24	1.02	1.74	2.70	4.35	2.58	6.61	18.33	19.98	22.22	35.64	17.56	17.94	20.29	30.70

Relative standard errors (RSEs) for Table CE4.1 Annual household site end-use consumption by fuel in the United States—totals, 2020

	RSEs for number of housing units	RSEs for total site energy consumption ^a																		
		Electricity							Natural gas				Propane				Fuel oil or kerosene			
		Total U.S. ^b	Total	Total	Space heating ^c	Water heating	Air conditioning	Refrigerators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating
All homes	0.00	0.40	0.38	1.43	1.17	0.66	0.34	0.51	0.91	1.01	0.89	3.44	3.80	4.48	4.78	6.88	3.43	3.41	5.16	11.81
Mobile homes	0.00	1.58	1.95	4.65	3.70	2.92	2.03	2.68	7.25	7.89	7.80	16.05	10.02	11.78	14.22	17.23	15.62	17.04	81.33	44.38
Ownership of housing unit																				
Owned	0.42	0.59	0.62	1.80	1.62	0.92	0.62	0.68	1.06	1.11	1.08	4.53	4.03	4.65	4.51	7.60	3.86	4.00	5.88	12.16
Single-family	0.36	0.57	0.59	1.76	1.57	0.88	0.63	0.67	1.01	1.11	1.03	4.44	4.49	5.25	4.68	8.20	3.89	4.02	5.66	11.68
Apartments	4.13	6.67	5.26	14.02	8.25	6.83	4.85	5.45	8.48	9.60	7.09	32.86	48.26	57.29	73.03	55.43	31.82	27.66	31.87	62.99
Mobile homes	2.05	2.71	3.33	6.01	4.69	4.26	3.01	4.09	8.98	9.67	9.20	18.79	11.04	13.39	14.44	19.05	19.32	21.28	56.64	48.63
Rented ^e	0.86	1.51	1.31	2.59	2.23	2.05	1.27	1.48	2.48	3.27	2.09	6.41	9.90	13.56	13.60	15.84	8.63	9.80	12.33	25.83
Single-family	2.35	2.88	2.97	5.89	4.23	4.04	2.78	2.90	4.12	4.60	3.83	12.25	14.02	16.97	20.78	22.77	11.58	12.12	22.92	46.85
Apartments	0.64	1.34	1.45	3.43	2.77	2.07	1.18	1.70	2.95	4.02	2.70	8.31	14.09	17.36	17.30	29.16	14.25	17.00	15.03	29.66
Mobile homes	7.62	7.67	7.57	9.81	10.25	9.35	7.90	8.47	16.57	19.80	22.11	20.80	29.31	29.71	68.70	42.53	32.13	34.59	20.14	18.23
Year of construction																				
Before 1950	0.00	1.35	1.24	4.83	3.60	1.94	1.07	1.49	2.21	2.48	2.41	10.03	9.94	11.11	11.50	17.52	7.08	7.60	10.58	23.91
1950 to 1959	0.00	1.48	1.79	5.00	5.47	2.41	1.34	1.98	2.35	2.68	2.75	9.20	13.70	14.88	15.79	22.11	9.33	9.39	14.39	26.01
1960 to 1969	0.00	1.56	1.63	5.23	4.10	3.35	1.61	1.87	2.92	3.45	2.66	7.86	15.61	17.87	18.91	25.72	10.42	11.04	12.24	33.20
1970 to 1979	0.00	1.34	1.27	4.06	2.97	2.11	1.16	1.49	2.61	2.95	2.66	8.89	8.92	10.25	12.27	14.31	8.62	9.26	12.87	30.96
1980 to 1989	0.00	1.34	1.35	3.74	2.90	2.04	1.34	1.58	2.87	3.25	3.14	9.04	8.47	9.85	13.16	27.44	10.48	11.21	13.04	27.31
1990 to 1999	0.00	1.32	1.26	3.74	3.17	2.34	1.13	1.58	2.75	2.89	2.98	8.99	8.62	10.22	9.26	13.64	9.88	10.27	14.28	25.08
2000 to 2009	0.00	1.40	1.29	3.15	2.74	2.07	1.28	1.73	2.57	2.95	2.81	11.30	8.25	10.49	10.54	15.02	14.40	16.73	15.03	30.27
2010 to 2015	2.84	4.04	3.92	5.46	5.80	4.77	3.59	4.53	5.73	6.07	5.83	18.31	12.48	14.84	17.20	26.00	45.17	35.10	61.17	80.65
2016 to 2020	3.44	4.72	4.03	6.93	5.46	5.16	3.94	4.95	7.24	7.54	7.75	19.07	15.10	19.34	18.69	19.05	85.22	78.37	18.35	0.00
Total square footage ^h																				
Less than 1,000	1.20	1.65	1.74	2.71	3.09	2.38	1.60	2.05	2.35	3.28	2.46	6.68	12.27	14.66	15.97	21.06	11.17	9.80	15.54	31.55
1,000 to 1,499	1.54	1.89	1.82	3.65	2.79	2.40	1.88	1.84	2.92	3.18	3.14	8.29	6.78	8.25	12.34	15.81	10.05	9.99	16.27	30.35
1,500 to 1,999	1.59	1.68	1.98	4.04	3.21	2.43	1.84	1.97	2.31	2.67	2.60	5.38	7.06	8.70	9.94	19.57	9.09	9.00	13.78	23.20
2,000 to 2,499	2.32	2.44	2.40	3.90	4.32	3.21	2.49	2.43	2.99	3.16	3.59	7.79	9.83	10.79	11.90	16.70	8.74	8.97	10.58	24.41
2,500 to 2,999	2.55	2.61	2.85	5.60	5.16	3.42	2.76	2.90	3.40	3.75	3.80	11.04	11.17	12.92	14.36	17.05	10.41	10.81	16.70	38.61
3,000 or more	1.93	2.07	2.08	4.43	3.74	2.66	2.29	2.33	2.86	2.89	3.21	8.55	7.73	9.52	7.91	11.16	7.91	8.19	9.14	22.44
Number of household members																				
1 member	1.25	1.66	1.51	3.16	1.96	2.02	1.45	1.72	2.53	2.97	2.29	6.71	8.77	9.25	10.28	16.93	7.40	7.44	11.82	26.50
2 members	1.15	1.27	1.18	2.70	1.92	1.74	1.39	1.25	1.90	1.98	1.80	6.96	5.57	6.52	6.17	12.13	7.47	7.69	8.41	24.05
3 members	1.87	1.80	1.70	3.66	3.73	2.53	2.00	1.95	3.15	3.30	3.71	10.52	11.93	14.41	12.73	14.84	7.70	7.71	10.27	28.07
4 members	2.08	2.31	2.22	4.02	3.89	3.04	2.34	2.32	3.20	3.37	3.74	6.90	9.96	12.24	13.16	13.11	10.69	11.21	13.25	27.80
5 members	4.12	4.26	4.63	8.26	6.24	5.73	4.67	4.54	5.59	6.36	5.03	11.38	17.82	22.29	20.75	35.26	16.28	17.15	23.76	33.40
6 or more members	4.58	4.85	4.53	10.63	6.90	5.94	4.90	4.66	6.59	7.50	7.40	17.18	21.04	24.35	24.93	29.84	21.34	22.39	31.99	56.92
2020 annual household income																				

Relative standard errors (RSEs) for Table CE4.1 Annual household site end-use consumption by fuel in the United States—totals, 2020

	RSEs for number of housing units	RSEs for total site energy consumption ^a																		
		Electricity							Natural gas				Propane				Fuel oil or kerosene			
		Total U.S. ^b	Total	Total	Space heating ^c	Water heating	Air conditioning	Refrigerators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating
All homes	0.00	0.40	0.38	1.43	1.17	0.66	0.34	0.51	0.91	1.01	0.89	3.44	3.80	4.48	4.78	6.88	3.43	3.41	5.16	11.81
Less than \$5,000	4.63	5.74	5.29	9.00	7.80	6.84	4.91	6.22	8.85	11.18	7.40	19.91	24.26	32.49	26.62	35.48	29.15	32.41	46.63	71.20
\$5,000 to \$9,999	5.53	6.15	5.98	8.69	8.38	8.47	5.88	6.41	9.80	11.51	9.59	15.85	18.43	23.20	28.49	34.61	23.73	24.69	40.32	58.16
\$10,000 to \$19,999	3.21	3.46	3.58	6.40	4.89	4.87	3.75	3.63	4.98	6.09	5.16	15.71	12.87	15.33	17.11	24.79	14.31	16.05	23.70	45.61
\$20,000 to \$39,999	1.98	2.16	2.01	3.45	2.96	2.65	2.19	2.32	3.22	3.39	3.88	8.39	8.93	9.75	12.04	16.36	10.14	10.01	14.49	40.09
\$40,000 to \$59,999	1.83	2.07	2.32	4.60	3.65	2.89	2.00	2.41	3.13	3.39	2.99	12.48	9.46	11.04	11.38	14.55	11.49	12.33	16.69	36.09
\$60,000 to \$99,999	1.58	1.67	1.77	3.83	3.25	2.41	1.68	1.60	2.36	2.72	1.94	8.79	7.45	8.82	8.83	14.44	7.32	7.39	8.78	21.73
\$100,000 to \$149,999	1.83	1.91	2.32	5.51	4.12	3.10	1.87	2.23	2.50	2.66	3.06	6.18	9.68	10.91	12.28	18.04	9.25	9.04	13.46	26.13
\$150,000 or more	1.93	2.23	2.30	5.05	4.07	2.73	2.26	2.41	2.87	3.07	3.02	8.00	9.37	12.01	9.75	12.81	7.53	7.79	10.79	23.73
Payment method for energy bills																				
All paid by household	0.27	0.46	0.44	1.48	1.25	0.70	0.42	0.56	0.97	1.05	0.94	3.81	3.80	4.49	4.72	7.11	3.40	3.46	5.28	11.54
Some paid by household, some included in rent or condo fee	3.90	4.50	4.65	11.67	10.12	5.61	3.88	4.85	6.38	7.98	6.03	9.91	22.10	34.08	23.05	42.87	15.97	17.57	16.98	32.59
All included in rent or condo fee	4.78	5.40	5.52	7.99	7.76	6.58	5.53	5.39	7.93	9.78	7.94	18.89	35.80	43.41	47.42	48.61	26.32	26.94	39.26	16.95
Some other method	25.04	37.24	26.38	42.57	41.54	37.36	28.52	27.48	48.81	54.63	39.65	40.75	77.36	0.00	71.79	86.56	41.60	42.18	23.61	18.23
Main heating fuel																				
Natural gas	0.77	0.87	0.95	4.08	3.04	1.28	0.94	0.98	0.95	1.01	1.01	4.01	21.15	34.98	40.12	30.79	24.68	52.17	25.25	38.25
Electricity	0.92	1.17	1.11	1.65	1.50	1.45	1.14	1.45	5.13	16.50	5.44	9.53	5.95	12.89	9.86	9.57	26.87	31.32	30.00	43.25
Fuel oil or kerosene	3.50	3.32	3.58	11.97	7.07	5.17	3.70	3.71	20.58	55.06	20.81	24.26	11.49	23.06	21.21	15.55	3.57	3.50	5.58	14.21
Propane	3.76	4.33	4.53	12.83	5.96	5.33	4.30	4.89	32.85	14.19	54.28	36.81	4.54	4.80	5.11	10.22	60.81	60.81	0.00	0.00
Wood	4.88	5.67	5.43	11.85	6.87	7.68	5.89	5.61	27.19	36.45	40.04	29.54	14.34	22.87	14.89	26.35	20.20	23.89	24.20	32.38
Some other fuel ⁱ	35.67	38.88	35.48	14.58	37.53	48.49	39.28	37.28	16.20	0.00	0.00	16.20	62.35	0.00	0.00	62.35	84.02	62.70	0.00	14.82
Does not use heating equipment	4.41	5.09	5.15	0.00	6.80	6.21	4.61	5.38	9.50	0.00	10.05	17.64	30.69	0.00	33.39	54.20	52.84	0.00	54.12	28.73

Relative standard errors (RSEs) for Table CE4.1 Annual household site end-use consumption by fuel in the United States—totals, 2020

	RSEs for number of housing units	RSEs for total site energy consumption ^a																		
		Electricity							Natural gas				Propane			Fuel oil or kerosene				
		Total U.S. ^b	Total	Space heating ^c	Water heating	Air condi- tioning	Refrig- erators	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d	Total	Space heating ^c	Water heating	Other ^d
All homes	0.00	0.40	0.38	1.43	1.17	0.66	0.34	0.51	0.91	1.01	0.89	3.44	3.80	4.48	4.78	6.88	3.43	3.41	5.16	11.81

Data source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Forms EIA-457A, D, E, F, G of the *2020 Residential Energy Consumption Survey*

Notes: See RECS Terminology for definition of terms used in these tables.

^a Consumption and expenditures for biomass (wood), coal, district steam, and solar thermal are excluded. Electricity consumption from on-site solar photovoltaic generation (that is, solar panels) is included.

^b *Total U.S.* includes all primary occupied housing units in the 50 states and the District of Columbia. Vacant housing units, seasonal units, second homes, military houses, and group quarters are excluded.

^c Includes main (primary) and secondary space heating.

^d Includes end uses not shown in this table. A more detailed breakout of end uses is shown in the *CE5* tables.

^e Housing units are classified using criteria created by the U.S. Census Bureau based on 2010 Census data. Urbanized areas are densely settled groupings of blocks or tracts with 50,000 or more people. Urban clusters have at least 2,500 but less than 50,000 people. All other areas are rural.

^f The Building America program, sponsored by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE), created these climate regions. We combined climate regions for this publication. The Subarctic region is included with data for *Very-cold and Cold*.

^g *Rented* includes households that occupy their primary housing units without paying rent.

^h *Total square footage* includes all basements, finished or conditioned (heated or cooled) areas of attics, and conditioned garage space that is attached to the home. Unconditioned and unfinished areas in attics and attached garages are excluded. The square footage of the home is based on respondent reports. Previous RECS cycles calculated square footage based on interviewer measurements. For households that did not report an exact square footage estimate, the square footage of the home was imputed based on a reported square footage range and/or characteristics of the home. See *2020 RECS Square Footage Methodology* for full details about data collection and processing.

ⁱ *Some other fuel* includes coal and district steam.